GRAYSON COUNTY

(Grayson County Water Service Area Map)

- Estimated 1999 population of 23,600--83% on public water
- Estimated 2020 population of 26,800--84% on public water
- 560 miles of water lines, with plans for 28 additional miles
- Estimated funding needs for public water 2000-2005--\$1,850,000
- Estimated funding needs for public water 2006-2020--\$0

Grayson County had an estimated population of 23,616 (9,659 households) in 1999 with a projected population of 26,811 (11,550 households) in 2020. Public water is provided to about 83 percent of the county's residents. In areas of the county not served by public water, about 2/3 of the households rely on private domestic wells and 1/3 of the households rely on other sources. About 100 customers will be added to public water service through new line extensions in 2000-2020.

Estimated Costs - Proposed Projects, 2000-2005

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/	Total
							Pumps	
	Miles	Number	Cost in \$1000	in \$1000				
GRAYSON								
Grayson County Water	28	97	1,000				850	1,850
District								
TOTAL	28	97	1,000				850	1,850

PUBLIC WATER SYSTEMS

The residents of Grayson County are presently provided water by six systems: 2 water districts, Grayson County Water District and Edmonson County Water District/Wax Plant; 2 municipalities, the Leitchfield Water Works and Caneyville Municipal Water Works; and 2 non-community systems. There are some areas of the county, which are impractical to serve by public water, mostly because of monetary constraints. There are other areas near Nolin Lake that are not feasible because there are no permanent inhabitants.

GRAYSON COUNTY WATER DISTRICT

PWSID:	0430616
	COMMUNITY
	WATER DISTRICT
	CANEYVILLE RESERVOIR
Purchase Source:	259 SOUTH

WATER SERVICE AREAS GRAYSON COUNTY Kentucky

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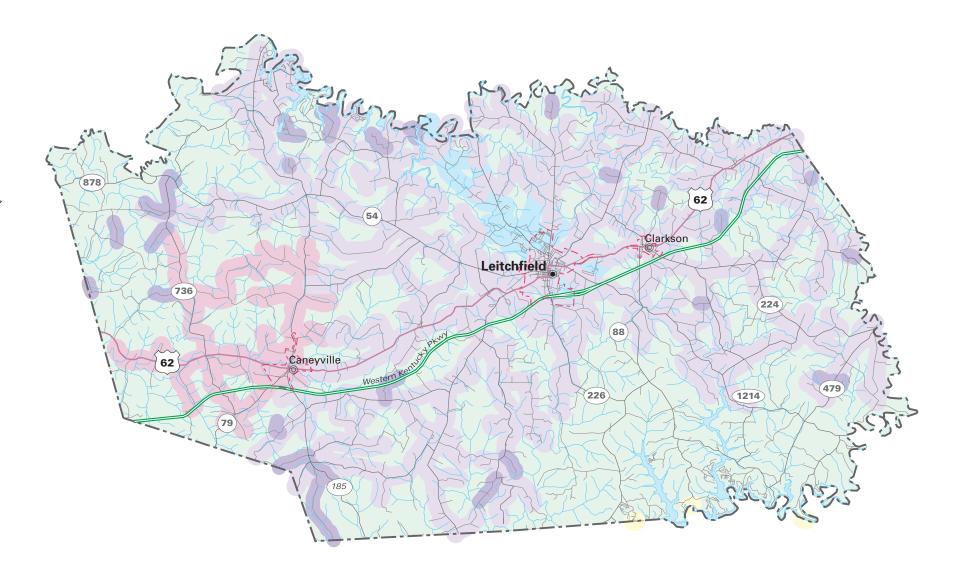








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WATER SERVICE STATUS BY OWNER



Well Source: Sells Water to: Percent Daily Average Production: 0.00 Number of Employees: 0.00 Distribution Operator Class: Customer Rate for 1,000 Gallons: 6.56

Grayson County Water District purchases its water from the City of Leitchfield, which in turn gets its water from the Rough River. According to the Grayson County Water Supply Plan Rough River has an adequate supply of water to support any future needs. The District currently services 4,157 customers in Grayson County. The City of Leitchfield Water Treatment Plant has a production capacity of approximately 2.7 million gallons per day. On the average, the plant produces approximately 2.0 million gallons per day. Approximately 74% of the design capacity is in use. Currently, the City of Leitchfield is in the process of upgrading the water treatment plant in order to alleviate problems with capacity. The District's storage system consists of five storage tanks located at various points within its service area. The total storage capacity of the district is 1,039,000 gallons, not including the storage capacity of the City of Leitchfield.

CANEYVILLE MUNICIPAL WATER WORKS

PWSID:	COMMUNITY
Well Source:	
Sells Water to:	
Treatment Plant Capacity (MGD):	
Percent Daily Average Production:	
Total Tank Storage Capacity (gallons):	
Total Service Connections:	
Number of Employees:	
Treatment Operator Class:	
Distribution Operator Class:	
Customer Rate for 1,000 Gallons:	
O/M costs 1997:	
O/M costs per Service Connection:	
Net Revenue 1997:	
Total Water Produced 1997 (gallons):	
Water Sold 1997 (gallons):	
Unaccounted-for Water 1997 (%):	Not available
<u>LEITCHFIEL</u>	D WATER WORKS
PWSID:	0430244
PWSID:	
PWSID:	0430244 COMMUNITY MUNICIPAL
PWSID:	0430244 COMMUNITY MUNICIPAL
PWSID:	0430244 COMMUNITY MUNICIPAL
PWSID:	0430244
PWSID:	
PWSID: System Type: Owner Type: Surface Source: Purchase Source: Well Source: Sells Water to: Treatment Plant Capacity (MGD):	
PWSID:	
PWSID: System Type: Owner Type: Surface Source: Purchase Source: Well Source: Sells Water to: Treatment Plant Capacity (MGD): Percent Daily Average Production:	
PWSID:	
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PWSID: System Type: Owner Type: Surface Source: Purchase Source: Well Source: Sells Water to: Treatment Plant Capacity (MGD): Percent Daily Average Production: Total Tank Storage Capacity (gallons): Total Service Connections: Number of Employees: Treatment Operator Class: Distribution Operator Class:	
PWSID: System Type: Owner Type: Surface Source: Purchase Source: Well Source: Sells Water to: Treatment Plant Capacity (MGD): Percent Daily Average Production: Total Tank Storage Capacity (gallons): Total Service Connections: Number of Employees: Treatment Operator Class: Distribution Operator Class: Customer Rate for 1,000 Gallons:	
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EDMONSON COUNTY WATER DISTRICT/WAX PLANT

Edmonson County Water District/Wax Plant is located in Grayson County. The system serves a population of 12,612 and has 4,080 service connections. The district has treatment

capacity of 1,000,000 gallons per day. The water source is surface water from Nolin Reservoir.

OTHER SYSTEMS

ROUGH RIVER STATE PARK

Rough River State Park is located in Grayson County. The system serves a population of 200 and has 1 service connection. The state, non-transient, non-community system has treatment capacity of 144,000 gallons per day. The water source is surface water from Rough River Reservoir.

PINE KNOB DINER

Pine Knob Diner is located in Grayson County. The system serves a population of 250 and has 1 service connection. The private, transient, non-community system has treatment capacity of 2,000 gallons per day. The water source is wells.

PRIVATE DOMESTIC SYSTEMS

About 4,000 people in Grayson County rely on private domestic water supplies: 2,700 on wells, and 1,300 on other sources.

In the lowlands along the Rough River and the valleys draining into Caney Creek, and in the area extending 10 miles east and west from Leitchfield, most drilled wells are adequate for a domestic supply. Yields as high as 100 gpm have been reported from wells penetrating fault zones that are prominent in parts of Grayson County. Depths of adequate wells range from 100 to 300 feet. In the remaining areas of the county only a few wells yield enough water for a domestic supply except in the lowland areas bordering streams where yields are sometimes sufficient for some wells to meet the supply needs for domestic use.